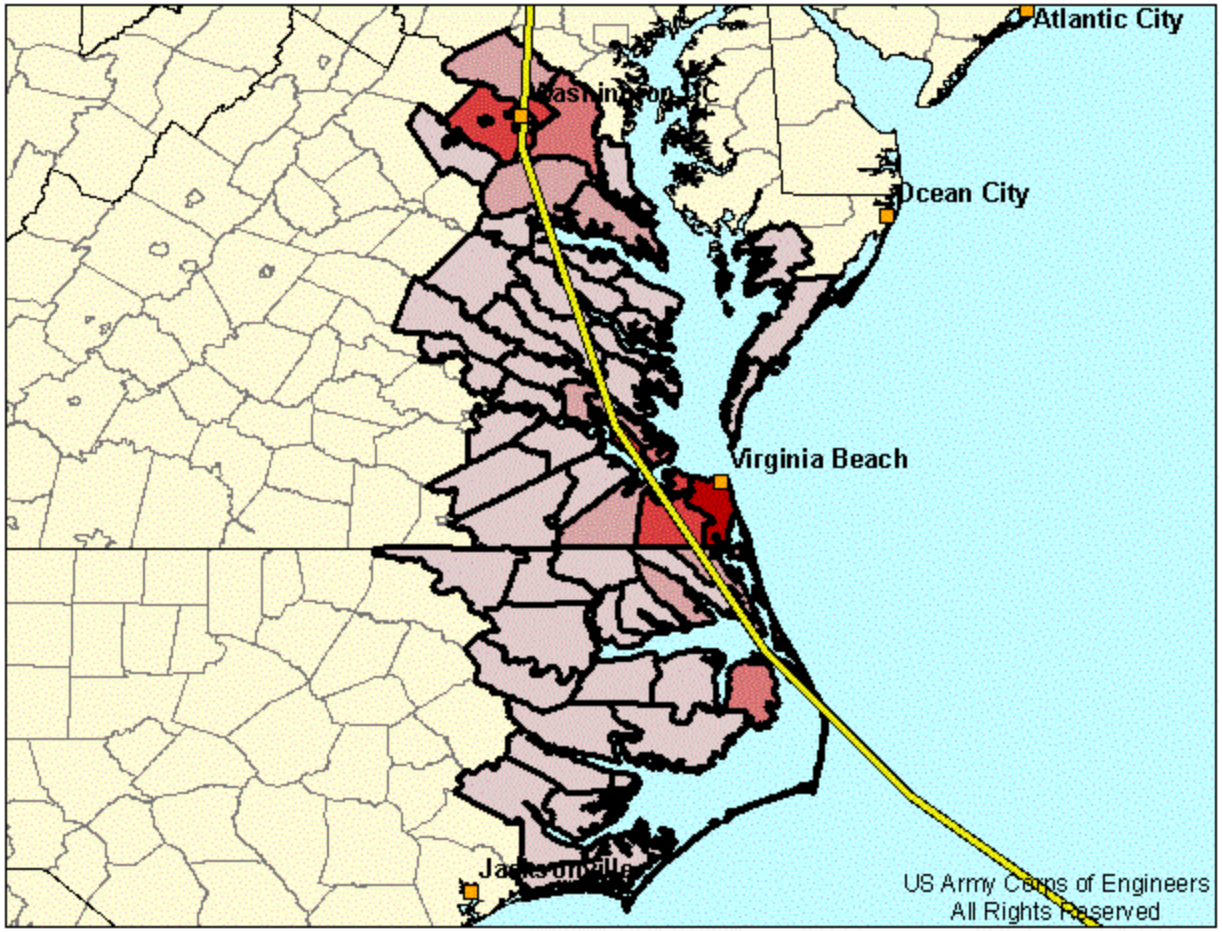
US Army Corps of Engineers

Hurricane NoName 1933 Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Virginia - 6,548,000 Yards
North Carolina - 1,109,000 Yards
Maryland - 694,000 Yards
District of Columbia - 664,000 Yards

Model results per County on following page

This model is based on a Category 2 storm making landfall on the Outer Banks, NC.

Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 2 storm making landfall on the Outerbanks, NC. These projections are based on information from the NHC (1430 EDT 05/21/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane NoName 1933 Debris Model

Generated By:
Siemsen, LRL 1500 EDT 05/21/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane NoName 1933 Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
District of Columbia		District of Columbia	664,000
District of Columbia	664,000		
Maryland		Calvert	< 1,000
		Charles	184,000
		Montgomery	127,000
		Prince George's	280,000
		Somerset	< 1,000
		St Mary's	103,000
Maryland	694,000		
North Carolina		Beaufort	31,000
		Bertie	29,000
		Camden	75,000
		Carteret	36,000
		Chowan	28,000
		Craven	7,000
		Currituck	195,000
		Dare	321,000
		Gates	27,000
		Hertford	33,000
		Hyde	24,000
		Martin	6,000
		Northampton	< 1,000
		Pamlico	14,000
		Pasquotank	201,000
		Perquimans	35,000
		Tyrrell	20,000
		Washington	27,000
North Carolina	1,109,000		

State	Yards per State	County	Yards per County
Virginia		Accomack	21,000
		Alexandria city	247,000
		Arlington	339,000
		Caroline	5,000
		Charles City	11,000
		Chesapeake city	867,000
		Essex	16,000
		Fairfax	846,000
		Fairfax City	10,000
		Falls Church city	18,000
		Franklin City	12,000
		Gloucester	98,000
		Hampton City	388,000
		Hanover	7,000
		Henrico	6,000
		Isle Of Wight	75,000
		James City	157,000
		King And Queen	17,000
		King George	22,000
		King William	22,000
		Lancaster	18,000
		Mathews	27,000
		Middlesex	31,000
		New Kent	24,000
		Newport News city	612,000
		Norfolk City	623,000
		Northampton	24,000
		Northumberland	20,000
		Poquoson City	29,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane NoName 1933 Debris Model

Generated By:
Siemsen, LRL 1500 EDT 05/21/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane NoName 1933 Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Virginia		Portsmouth city	285,000
(continued)		Prince George	11,000
		Prince William	70,000
		Richmond	11,000
		Southampton	19,000
		Suffolk City	180,000
		Surry	17,000
		Sussex	11,000
		Virginia Beach city	1,155,000
		Westmoreland	24,000
		Williamsburg city	27,000
		York	146,000
Virginia	6,548,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane NoName 1933 Debris Model

Generated By:
Siemsen, LRL 1500 EDT 05/21/2008

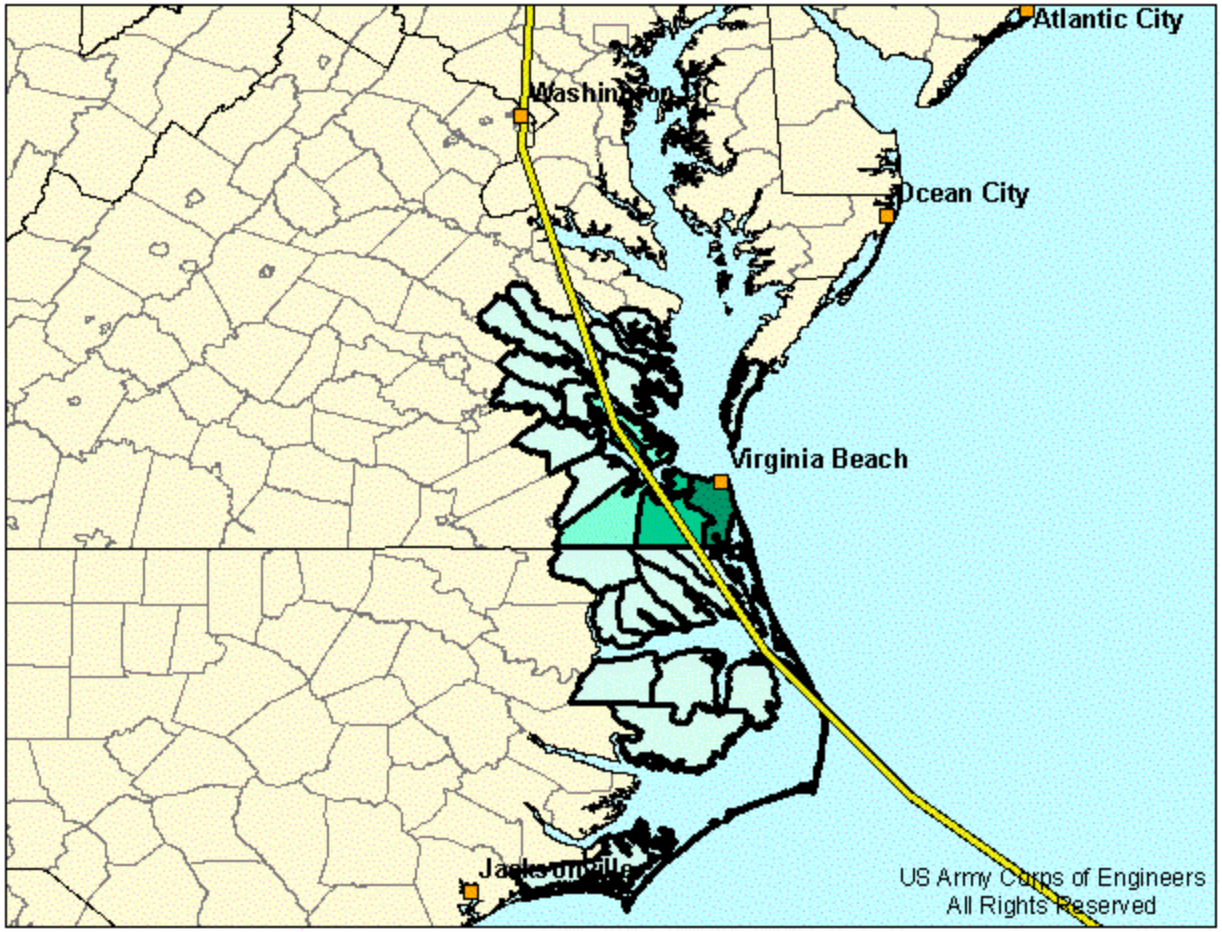
Sources:
HURREVAC
LRL-DEBRIS

Hurricane NoName 1933 Commodities Model

US Army Corps of Engineers

Landfall Plus About **12** Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
VA – 30/61/122 Truckloads
NC – 4/8/16 Truckloads

Model results per County on following page

This model is based on a Category 2 storm making landfall on the Outer Banks, NC.

Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 2 storm making landfall on the Outerbanks, NC. These projections are based on information from the NHC ***(1430 EDT 05/21/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane NoName 1933 Commodities Model	
Generated By: Siemsen, LRL 1500 EDT 05/21/2008	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 13

US Army Corps of Engineers

Hurricane NoName 1933 Commodities Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
North Carolina		Camden	1
		Carteret	1
		Chowan	1
		Currituck	2
		Dare	3
		Gates	1
		Hyde	1
		Pasquotank	3
		Perquimans	1
		Tyrrell	1
		Washington	1
North Carolina	16		
Virginia		Charles City	1
		Chesapeake city	15
		Gloucester	3
		Hampton City	10
		Isle Of Wight	3
		James City	4
		King And Queen	1
		King William	1
		Lancaster	1
		Mathews	1
		Middlesex	1
		New Kent	1
		Newport News city	12
		Norfolk City	16
		Northampton	1
		Poquoson City	1
		Portsmouth city	7
		Suffolk City	6

State	Truckloads per State	County	Truckloads per County
Virginia		Surry	1
(continued)		Virginia Beach city	30
		Williamsburg city	1
		York	5
Virginia	122		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane NoName 1933 Commodities Model

Generated By:
Siemsen, LRL 1500 EDT 05/21/2008

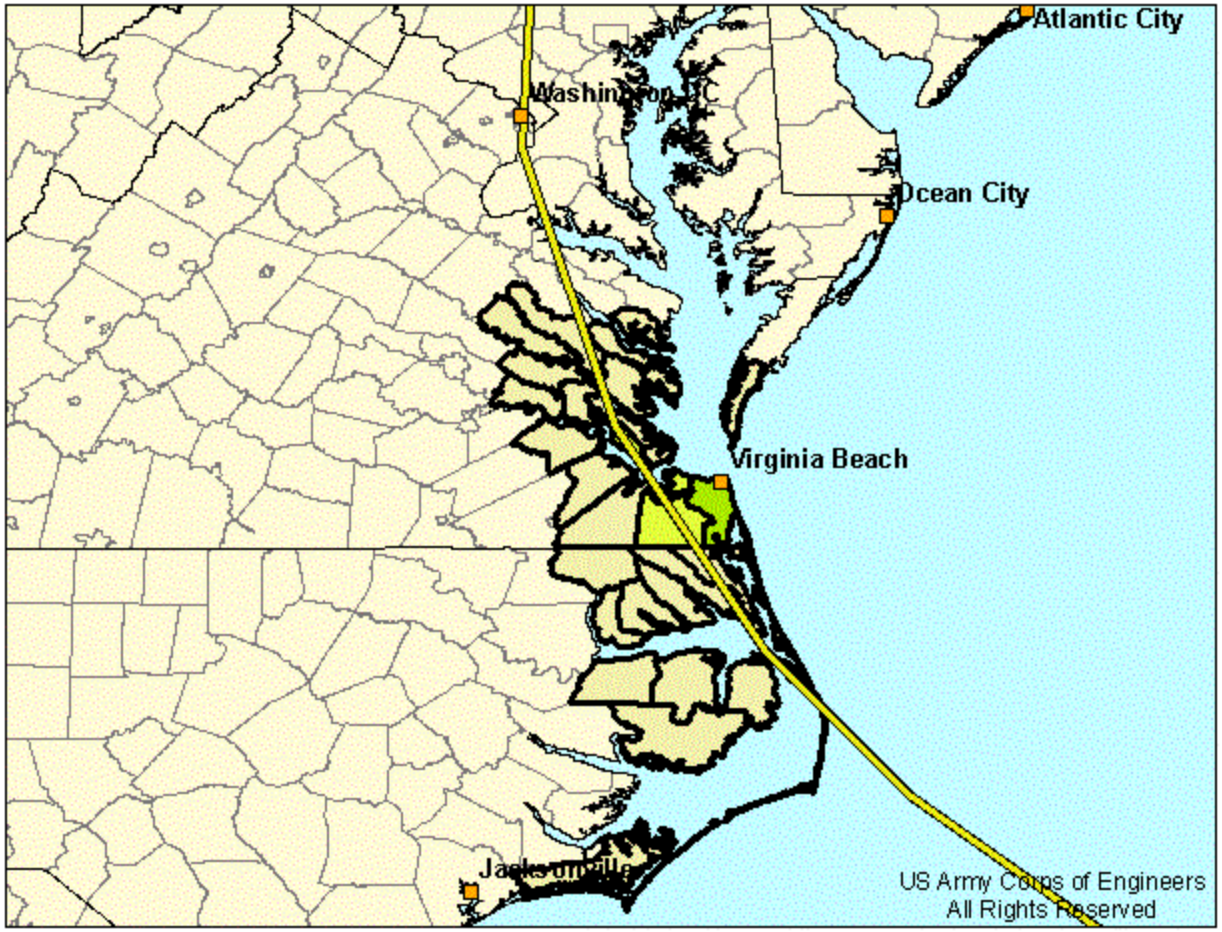
Sources:
HURREVAC
LRL-DEBRIS

Hurricane NoName 1933 Temporary Roofing Model

US Army Corps of Engineers

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Virginia - 19,900
North Carolina - 2,600

Model results per County on following page

This model is based on a Category 2 storm making landfall on the Outer Banks, NC.

Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall on the Outerbanks, NC. These projections are based on information from the NHC (1430 EDT 05/21/2008) forecast. Temporary roofing is based on 3% in CAT 1 and 6% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane NoName 1933 Roofing Model	
Generated By: Siemsen, LRL 1500 EDT 05/21/2008	
Sources: HURREVAC LRL-DEBRIS	Page 6 of 13

Hurricane NoName 1933 Temporary Roofing Model

US Army Corps of Engineers

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
North Carolina		Camden	200
		Carteret	< 100
		Chowan	< 100
		Currituck	600
		Dare	900
		Gates	< 100
		Hyde	< 100
		Pasquotank	700
		Perquimans	200
		Tyrrell	< 100
		Washington	< 100
North Carolina	2,600		
Virginia		Charles City	< 100
		Chesapeake city	3,100
		Gloucester	500
		Hampton City	1,700
		Isle Of Wight	400
		James City	700
		King And Queen	< 100
		King William	< 100
		Lancaster	< 100
		Mathews	200
		Middlesex	200
		New Kent	< 100
		Newport News city	2,500
		Norfolk City	2,600
		Northampton	< 100
		Poquoson City	200
		Portsmouth city	1,200
		Suffolk City	900

State	House Units per State	County	House Units per County
Virginia		Surry	< 100
(continued)		Virginia Beach city	4,800
		Williamsburg city	200
		York	700
Virginia	19,900		

Temporary roofing is based on 3% in CAT 1 and 6% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane NoName 1933 Roofing Model

Generated By:
Siemsen, LRL 1500 EDT 05/21/2008

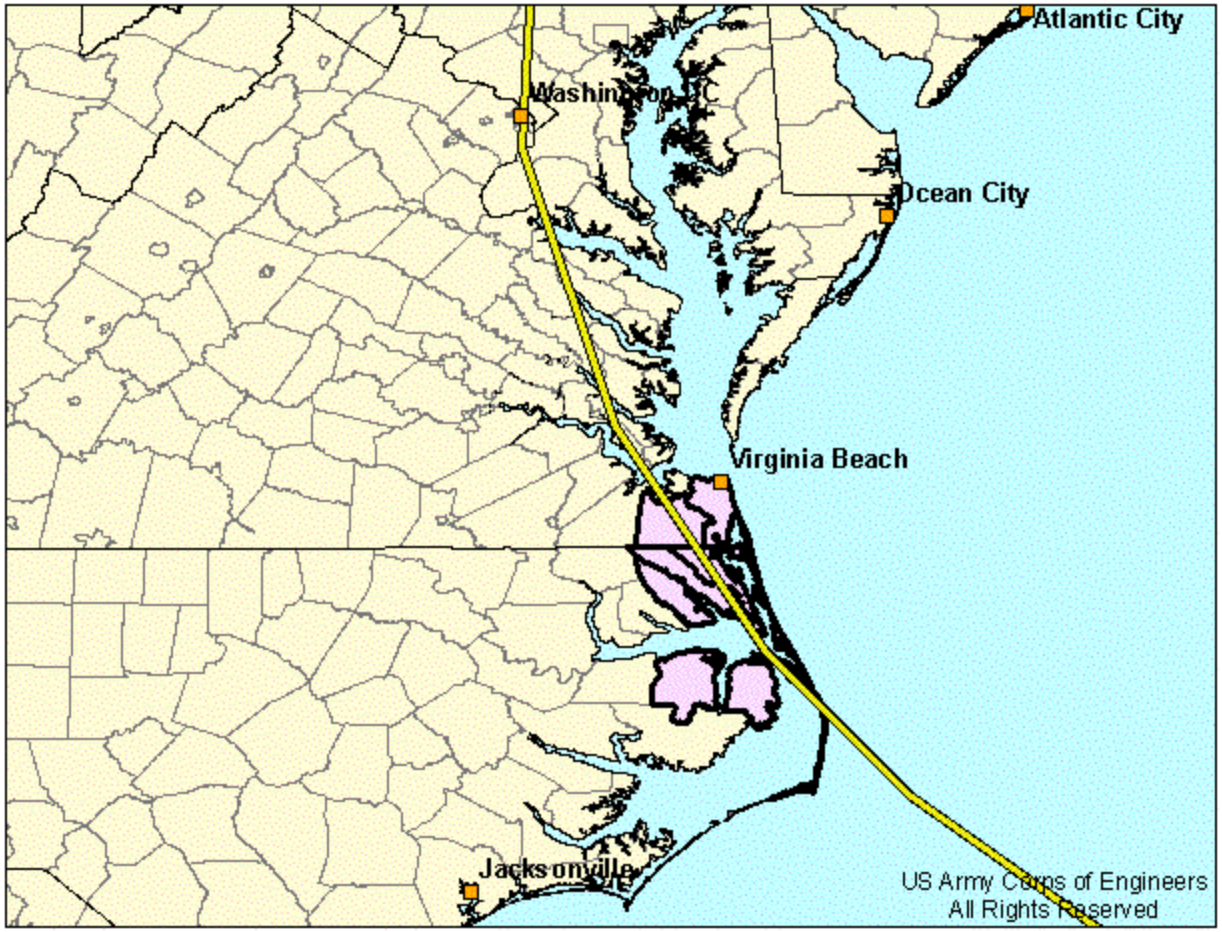
Sources:
HURREVAC
LRL-DEBRIS

Hurricane NoName 1933 Temporary Housing Model

US Army Corps of Engineers

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Temporary Housing Model Results

Virginia - 300
North Carolina - 200

Model results per County on following page

This model is based on a Category 2 storm making landfall on the Outerbanks, NC.

Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall on the Outerbanks, NC. These projections are based on information from the NHC (1430 EDT 05/21/2008) forecast. Temporary housing is based on 1% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane NoName 1933 Housing Model	
Generated By: Siemsen, LRL 1500 EDT 05/21/2008	
Sources: HURREVAC LRL-DEBRIS	Page 8 of 13

US Army Corps of Engineers

Hurricane NoName 1933 Temporary Housing Model

For Planning Purposes Only!

Landfall Plus About 12 Hours

State	House Units per State	County	House Units per County
North Carolina		Camden	< 100
		Currituck	< 100
		Dare	200
		Pasquotank	< 100
		Tyrrell	< 100
North Carolina	200		
Virginia		Chesapeake city	300
		Virginia Beach city	< 100
Virginia	300		

Temporary housing is based on 1% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane NoName 1933 Housing Model

Generated By:
Siemsen, LRL 1500 EDT 05/21/2008

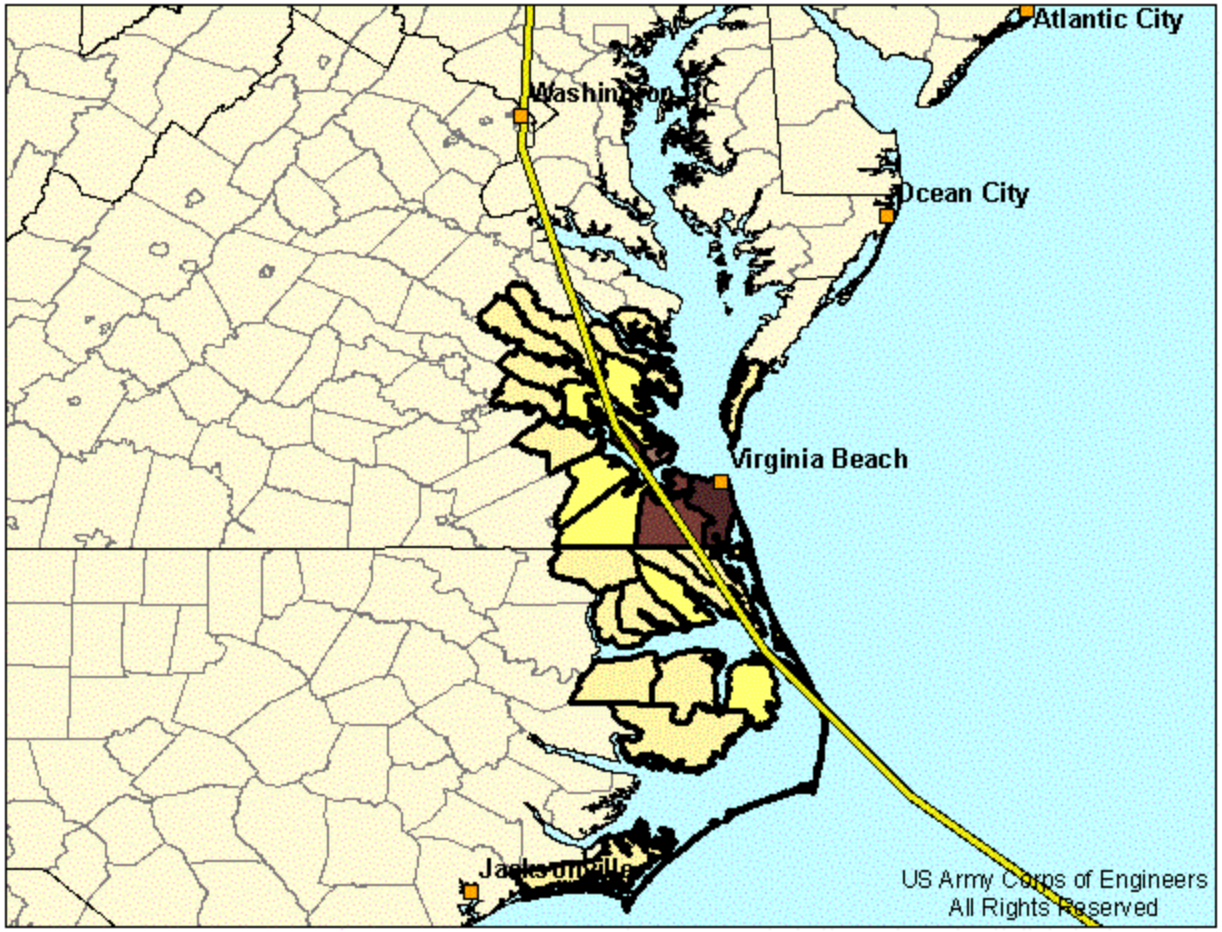
Sources:
HURREVAC
LRL-DEBRIS

Hurricane NoName 1933 Population Model

Landfall Plus About 12 Hours

US Army Corps of Engineers

For Planning Purposes Only!



Post Landfall Population Model Results

Virginia - 1,651,000
North Carolina - 150,000

Model results per County on following page

This model is based on a Category 2 storm making landfall on the Outer Banks, NC.

Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 2 storm making landfall on the Outerbanks, NC. These projections are based on information from the NHC (1430 EDT 05/21/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane NoName 1933 Population Model	
Generated By: Siemsen, LRL 1500 EDT 05/21/2008	
Sources: HURREVAC LRL-DEBRIS	Page 10 of 13

US Army Corps of Engineers

Hurricane NoName 1933 Population Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
North Carolina		Camden	10,000
		Carteret	< 1,000
		Chowan	9,000
		Currituck	24,000
		Dare	34,000
		Gates	6,000
		Hyde	5,000
		Pasquotank	40,000
		Perquimans	13,000
		Tyrrell	5,000
		Washington	4,000
North Carolina	150,000		
Virginia		Charles City	< 1,000
		Chesapeake city	221,000
		Gloucester	39,000
		Hampton City	146,000
		Isle Of Wight	31,000
		James City	59,000
		King And Queen	4,000
		King William	4,000
		Lancaster	2,000
		Mathews	10,000
		Middlesex	11,000
		New Kent	3,000
		Newport News city	179,000
		Norfolk City	229,000
		Northampton	8,000
		Poquoson City	12,000
		Portsmouth city	102,000
		Suffolk City	78,000

State	Population per State	County	Population per County
Virginia		Surry	3,000
(continued)		Virginia Beach city	436,000
		Williamsburg city	12,000
		York	62,000
Virginia	1,651,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane NoName 1933 Population Model

Generated By:
Siemsen, LRL 1500 EDT 05/21/2008

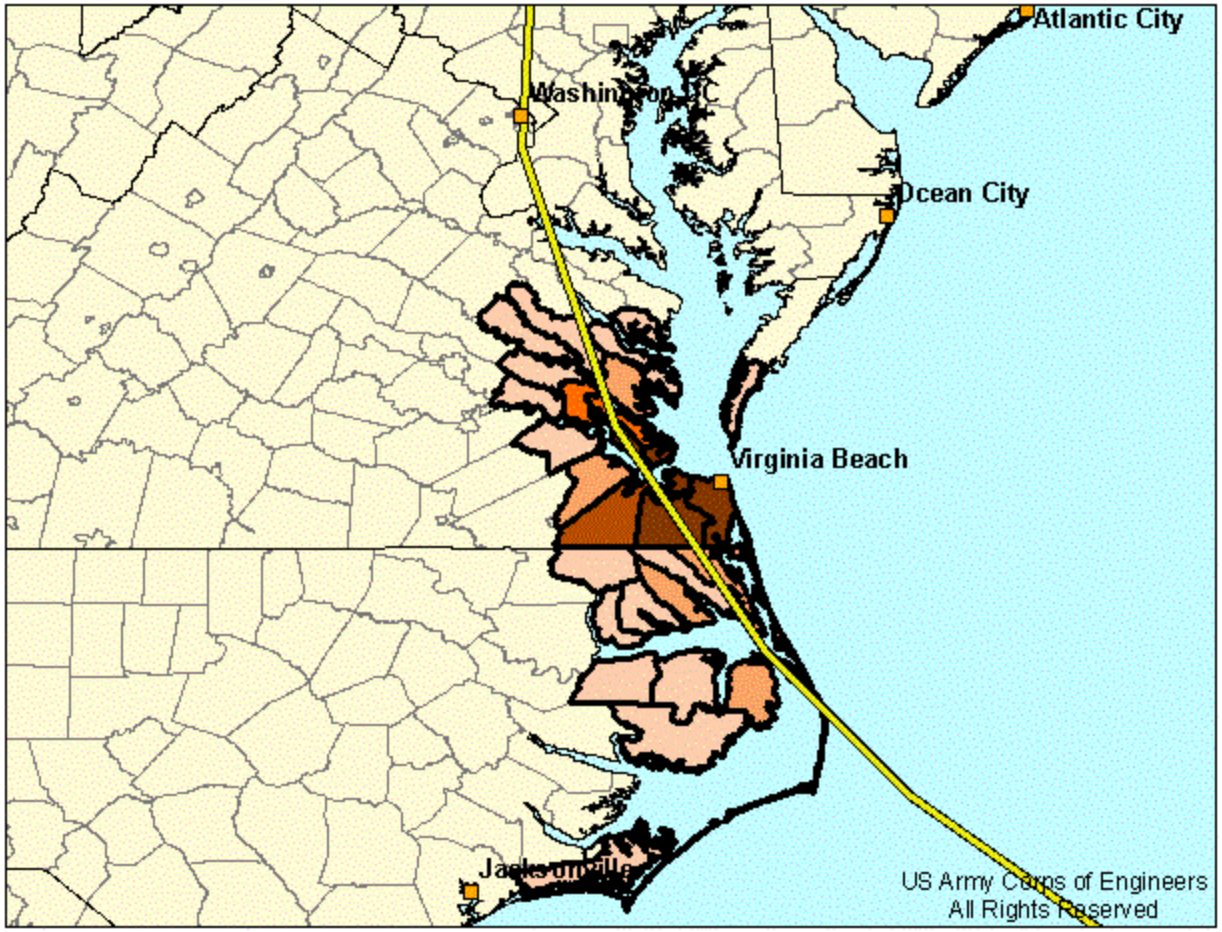
Sources:
HURREVAC
LRL-DEBRIS

Hurricane NoName 1933 Households Model

US Army Corps of Engineers

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Households Model Results

Virginia - 625,000
North Carolina - 63,000

Model results per County on following page

This model is based on a Category 2 storm making landfall on the Outer Banks, NC.

Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 2 storm making landfall on the Outerbanks, NC. These projections are based on information from the NHC (1430 EDT 05/21/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurrican eforce winds (Census 2000 values adjusted to July 2006 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane NoName 1933 Households Model	
Generated By: Siemsen, LRL 1500 EDT 05/21/2008	
Sources: HURREVAC LRL-DEBRIS	Page 12 of 13

US Army Corps of Engineers

Hurricane NoName 1933 Households Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
North Carolina		Camden	4,000
		Carteret	< 1,000
		Chowan	4,000
		Currituck	10,000
		Dare	15,000
		Gates	3,000
		Hyde	2,000
		Pasquotank	15,000
		Perquimans	6,000
		Tyrrell	2,000
		Washington	2,000
North Carolina	63,000		
Virginia		Charles City	< 1,000
		Chesapeake city	78,000
		Gloucester	15,000
		Hampton City	54,000
		Isle Of Wight	12,000
		James City	24,000
		King And Queen	2,000
		King William	2,000
		Lancaster	< 1,000
		Mathews	4,000
		Middlesex	5,000
		New Kent	< 1,000
		Newport News city	83,000
		Norfolk City	85,000
		Northampton	3,000
		Poquoson City	5,000
		Portsmouth city	39,000
		Suffolk City	29,000

State	Households per State	County	Households per County
Virginia		Surry	< 1,000
(continued)		Virginia Beach city	159,000
		Williamsburg city	4,000
		York	22,000
Virginia	625,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane NoName 1933 Households Model

Generated By:
Siemsen, LRL 1500 EDT 05/21/2008

Sources:
HURREVAC
LRL-DEBRIS